TC-K8 (Panel: Silver)

## Canadian Model

TC K8B (Panel: Black) E Model

AEP Model UK Model



# STEREO CASSETTE DECK

### **SPECIFICATIONS**

Power Requirements:

110, 120, 220, 240V ac, 50/60 Hz (E, AEP, UK model)

120V ac, 60 Hz (Canadian model)

**Power Consumption:** 

35W (E, AEP, UK model)

32W (Canadian model)

AC Outlet:

Unswitched 300W total (Canadian model)

Dimensions:

Approx. 430 (w)  $\times$  170 (h)  $\times$  310 (d) mm

 $430 \text{ (W)} \times 63 \text{ (4 (h)} \times 310 \text{ (d)} \text{ finithes}$  (E, AEP, UK model)  $460 \text{ (w)} \times 170 \text{ (h)} \times 310 \text{ (d)} \text{ mm}$   $18\frac{1}{8} \text{ (w)} \times 63 \text{ (4 (h)} \times 12\frac{1}{4} \text{ (d)} \text{ inches}$ 

(Canadian model)

Including projecting parts and controls

'Dolby' and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.

## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK M ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION: See page 50

Weight:

Approx. 11 kg, 24 lb 5 oz (E, AEP, UK model) 11.8 kg, 26 lb 1 oz (Canadian model)

Track:

4-track 2-channel stereo

Fast Forward and

Rewind Time: Frequency Response: Approx. 70 seconds with Sony cassette C-60

DOLBY NR OFF

With Ferri-Chrome cassette 20-18,000 Hz (NAB) 30-16,000 Hz ±3 dB (NAB) 30-16,000 Hz (DIN) With chromium dioxide cassette 20-17,000 Hz (NAB) 30-15,000 Hz ±3 dB (NAB)

30-15,000 Hz (DIN) With standard cassette 20-15,000 Hz (NAB) 30-13,000 Hz (DIN)

Wow and Flutter:

0.045% WRMS ±0.12% (DIN)

S/N Ratio:

DOLBY NR OFF With Ferri-Chrome cassette 60 dB at peak level (NAB) 59 dB (DIN, 1975 rev.) With chromium dioxide cassette 56 dB at peak level (NAB)

DOLBY NR ON Improved by 5 dB at 1 kHz, 10 dB above 5 kHz

**Total Harmonic** Distortion:

1.3%

- Continued on page 2 -



Record Bias Frequency:

105 kHz

Inputs:

MIC (two phone jacks)

Sensitivity: 0.2 mV (-72 dB) for low-impedance microphone

LINE IN (stereo binaural jack, two phono jacks)

Sensitivity: 0.06 V (-22 dB)

Impedance:  $100 \, \text{k}\Omega$ 

**Outputs:** 

LINE OUT (two phono jacks) Normal level: 0.775 $\vee$  (0 dB) Load impedance: 100 k $\Omega$ 

with LINE OUT level control at "10" suitable load impedance more than  $10\,\mathrm{k}\Omega$ 

HEADPHONES (binaural jack) output level 3.9 mV to 0.12V (-46 to -16 dB)

at load impedance  $8\Omega$ 

Record/Playback Jack:

Input impedance less than  $10 \, k\Omega$ Output impedance less than 10 kΩ

Remote Control

Connector:

11-pin connector

Liquid Crystal peak program meters

Response Range:

-40 dB to +5 dB 20 Hz-20,000 Hz ± 1.5 dB

Frequency Response:

1 millisecond

Response Time: Decay Time:

750 milliseconds (0 dB to -20 dB)

Overshoot:

Indicator Elements:

64 elements for each channel

0 dB = 0.775 V

## SECTION 1 **OUTLINE**

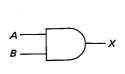
#### Circuit Description

A major feature of the TC-K8/K8B is the liquid crystal peak program meter which display input and output signals in analog bar graph form.

Some of the basic logic circuits employed in the meter circuit:

AND circuits:

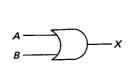
"H" output obtained only when all inputs are "H".



A	В.	X
L	L	L
Н	L	L
L	Н	L
Н	Н	H

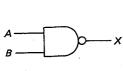
OR circuits:

"H" output obtained when at least one input is "H".



A	В	X
L	L	L
Н	L	Н
L	Н	Н
Н	Н	Н
H	Н	Н

NAND circuits: "L" output obtained when all inputs are "H". NAND circuits are formed by combining an AND circuit with a negating circuit.



	A	В	X
	L	L	Н
x	H	L	Н
	L	Н	Н
	H	Н	L
	L	ļ	

## Liquid Crystal Peak Program Meter Drive Circuits

1. Basic Frequency Generator Circuits for Liquid Crystal Drive (See Figs. 1 & 2.) The signal generated by the multivibrator consisting of IC7-4, 7-5, C006, and R012 is passed through inverter IC7-6 to produce waveform (A). This signal is then divided into 7 different wave-

a) Clock pulse

forms **(B)** - **(D)** by IC6.

Clock pulses are reference signals employed to show the converted time as the number of pulses. In this cassette deck, waveform B serves as the clock pulse. But waveforms and (a) are combined in the IC12-1 AND circuit to obtain a delay of half a clock pulse. This output (waveform 

) is applied to CX762 to ensure reliable shift of the A/D converted serial signal.

b) Strobe pulse

The IC6 output waveforms B to 🕒 are applied to IC13 for a NAND operation (waveform **①** ). The strobe pulse is then formed by adding the output waveform (6) from the IC7-1, R026, C007 delay circuit to the IC13 output waveform 1 in an AND operation. This strobe pulse signal (waveform ( ) is applied to CX762 and used as a reset signal.

c) Drive pulse

IC6 output (waveform ) is used as an LCD drive signal, being applied to CX762 via inverter IC8.

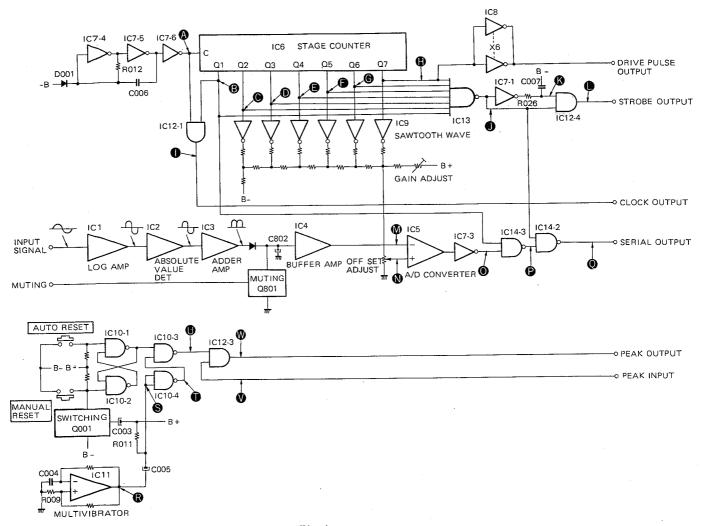


Fig. 1

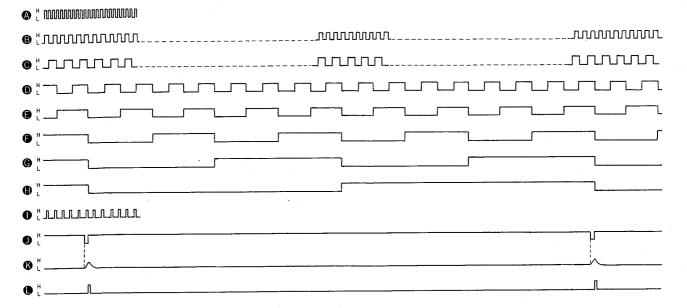


Fig. 2

2. A/D Converter Serial Signal Generator Circuit (See Figs. 1 & 3.)

The input signal is compressed according to a logarithmic function (in IC1) in order to expand the meter scale range. Then in order to detect both positive and negative peak levels in the input signal, the signal is rectified by the IC2 and IC3 full-wave rectifier, and charged up on C802 to convert the signal to DC current. (Levels a, b, and c in waveform- M correspond to the level variation in the input signal). The IC6 output waveforms ( to are applied to IC9, passed through resistors, and then combined to form a comparator sawtooth wave (waveform N) which is compared with waveform M in the A/D converter IC5. The input signal level variations are consequently The waveforms are passed through the inverter, and combined with the clock pulses (waveform by a NAND operation, resulting in the input signal level variation subsequently being expressed in terms of the number of clock pulses ( waveforms serial signal). The IC13 NAND output (waveform ) is combined with the serial signals ( waveforms) in another NAND operation, thereby maintaining the left hand end LCD on constantly. This precaution ensures that the display does not go off altogether when there is no input signal, and also eliminates the effects due to the drift at low level.

\* Drive pulse

Since the IC8 inverter operates and the output current of the "H" and "L" levels is equal, the potential difference becomes zero and this ensures longer operational life of the liquid crystal.

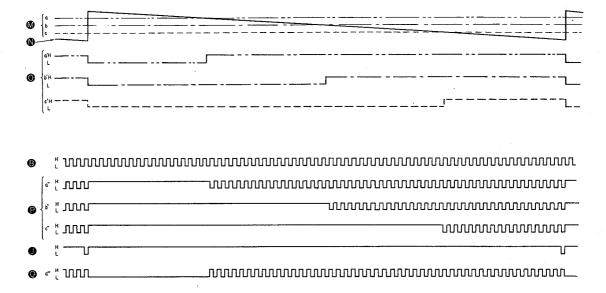
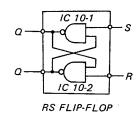


Fig. 3

3. Meter Mode Switching (See Figs. 1, 4 & 5)
IC10-1 and IC10-2 constitute an RS flip-flop.
When the power supply switch is turned on, Q001
turns on, and the input terminal of IC10-2 is
grounded while C003 is being charged up. Therefore an "L" level signal is generated on the IC10-1
output terminal. When the MANUAL RESET
switch is also turned on, an "L" level signal is
generated on the IC10-1 output terminal in the
same way. When the AUTO RESET switch is
turned on, an "L" level signal is applied to the

input terminal of IC10-1, resulting in the generation of an "H" level signal on the IC10-1 output terminal (See Fig. 4.) The signal (waveform ?) generated in the multivibrator (IC11, C004, and R009) is differentiated by C005 and R011 (waveform ?). The waveform ? is then rectified by IC10-4 (waveform ?), and combined with the IC10-1 output signal in a NAND operation (waveform ?). The peak signal reset pulse is generated when the AUTO RESET switch is on, but not when the MANUAL RESET switch is on.



Out Pow S	put /er R	Q	Q
L	Н	Н	L
Н	L	L	L

Fig. 4

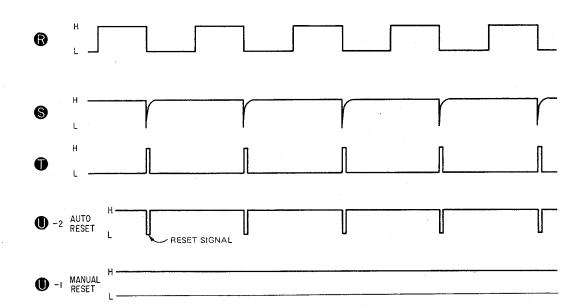
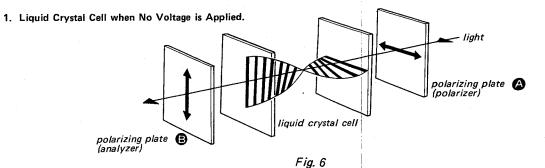


Fig. 5

### Liquid Crystal

The TC-K8B features the liquid crystal peak program meter. Although liquid crystal comes in various different types, the liquid crystal molecules employed here are long and slender, and line up in the direction of-an electric field. By orienting this liquid crystal parallel to the surface of a glass plate, and then setting up 2 such glass plates to be at right angles to a light

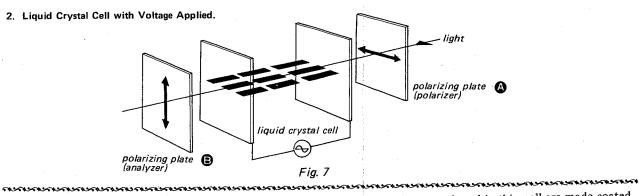
beam, the liquid crystals within the liquid crystal cell line up as shown in Fig. 6. When 2 light polarizing glass plates are added to both sides of the cell, but no voltage applied across the cell, a light beam passed through polarizing plate (a) is rotated through 90° as it passes through the cell, and passed out again through polarizing plate (b).



When a voltage is then applied across the crystal cell, the liquid crystals change direction and align perpendicular to the surface of the glass plates (as shown

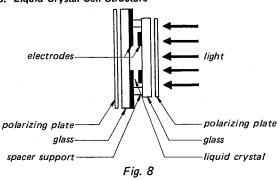
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in Fig.7.) The polarized light is no longer rotated through 90°, and consequently fail to pass through polarizing plate **(B)**. Therefore, the cell appears dark.



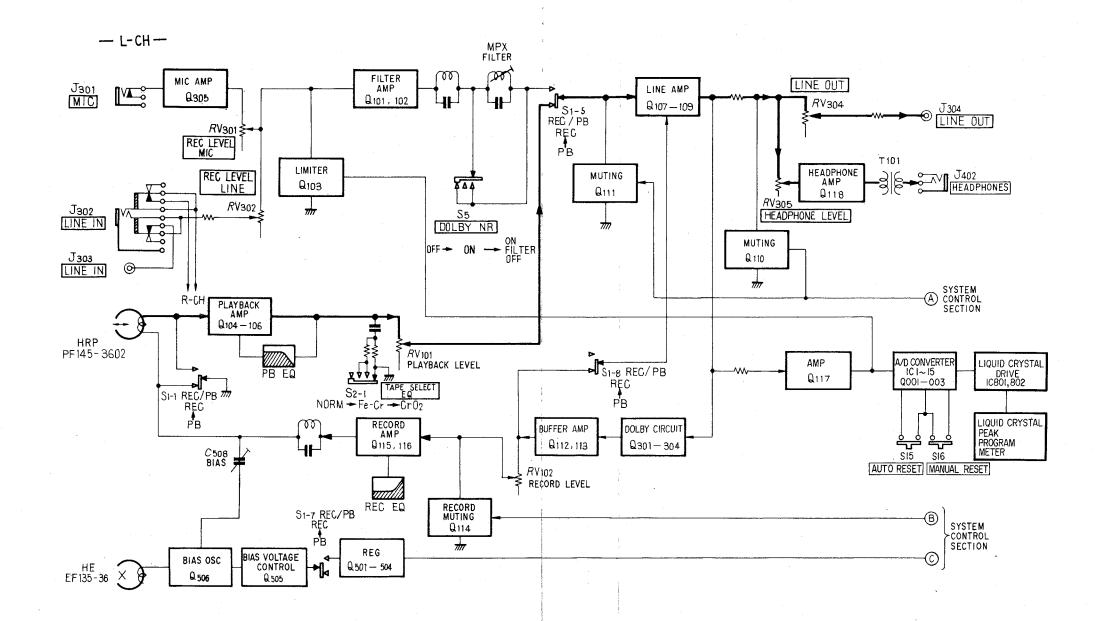
However, rather than indicating peak level by the change between light and dark, the peak program meter employed in the TC-K8/K8B feature a color display. This is achieved by using a color polarizing plate on the light source side. All colors except the desired color polarized by polarizing plate (A), resulting in this non-polarized color passing through polarizing plate (B) when all other colors are blocked

3. Liquid Crystal Cell Structure

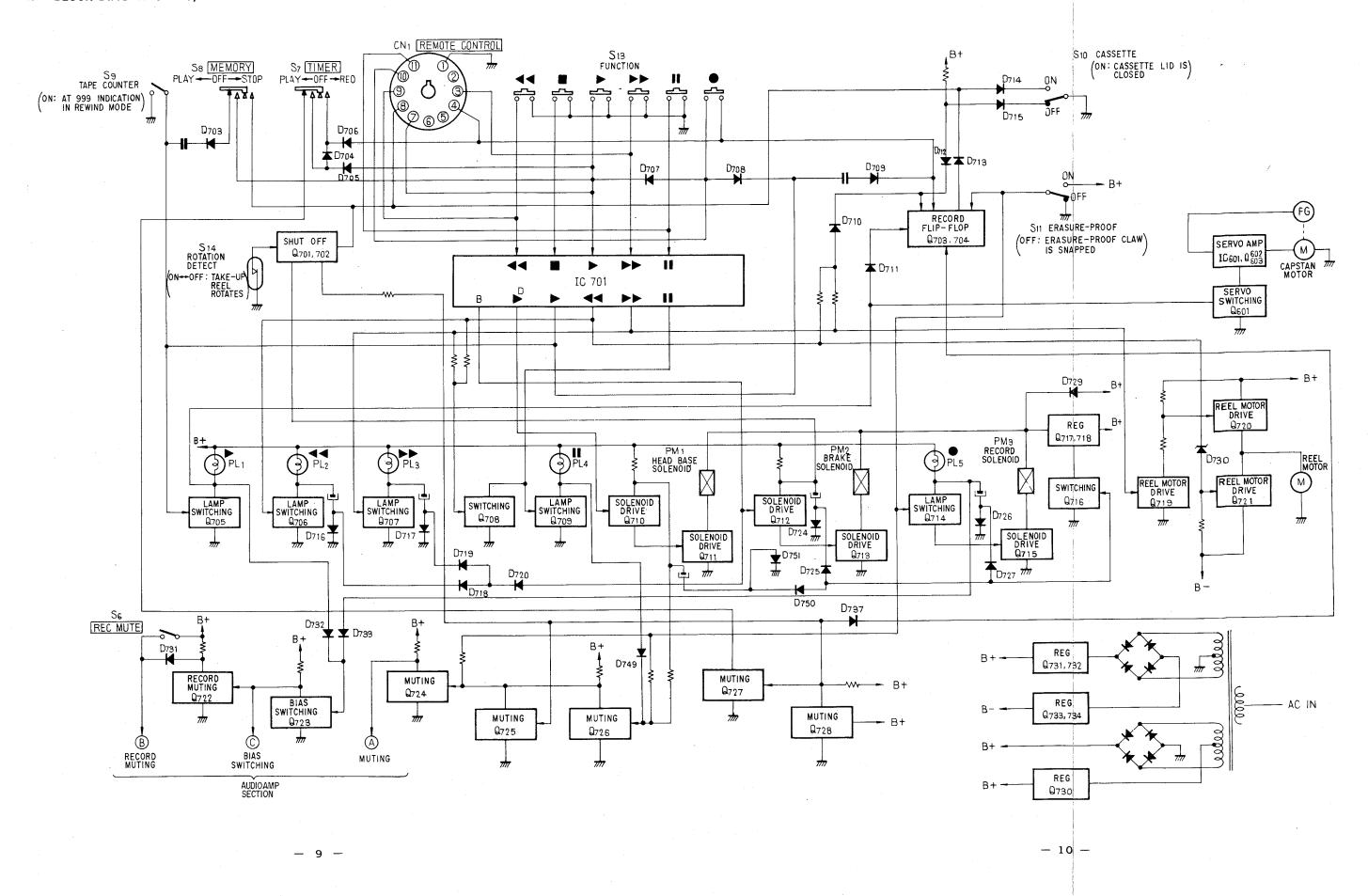


The glass plates employed in this cell are made coated by a transparent, electrically conductive material known as nesa film (which contains indium oxide). The coating is etched to form meter scale. The two plates are separated by a spacing support, and the space between two plates is filled with liquid crystal. The voltage is applied to the electrodes mounted on the inside of the glass plates, and when viewed from the front, the meter display is colored.

The TC-K8/K8B program meter consist of 64 separate elements in both left and right channels. The letters L and R also employ liquid crystal display. The colored polarizing plate is blue below the 0 dB level, and red above it. A fluorescent lamp has been employed as the light source because of the wide light spectrum required for the color display.



### 1. BLOCK DIAGRAMS - System Control Section -



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#### MOS IC HANDLING PRECAUTIONS

Since the insulation resistance of the oxidized film of MOS IC is generally very high and the film is extremely thin, the static electric charge on clothing or the body will cause the insulation to breakdown. Observe the following precautions when replacing

1. Maintain all the pins at the same potential by wrapping the IC in aluminum foil or other similar material. (See Fig. 1)

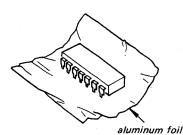
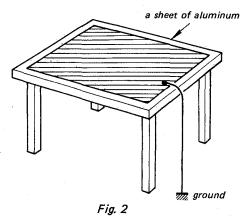
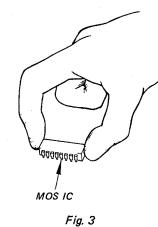


Fig. 1

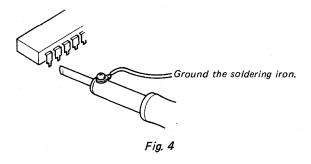
2. Ground the work bench for static electricity. (See Fig. 2) (Place a sheet of aluminum onto the bench.)

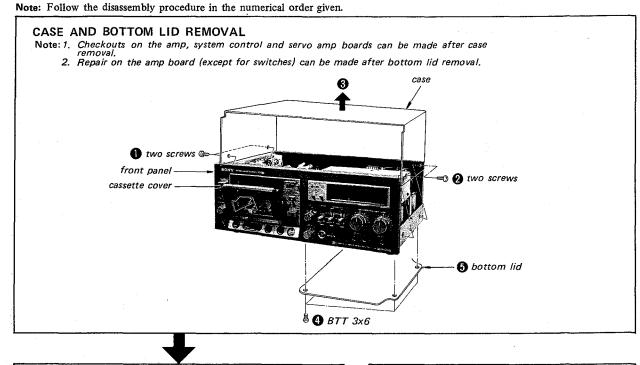


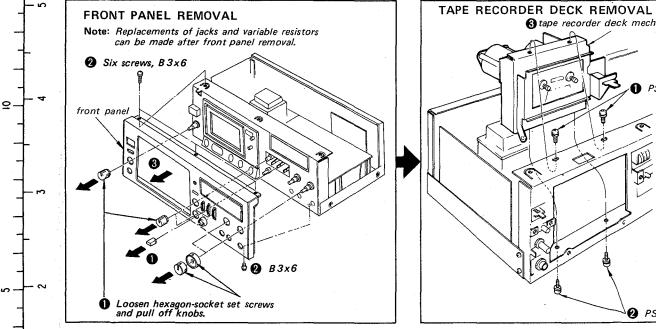
3. If necessary to touch the MOS IC direct, grasp the IC at a point other than the pins. Moreover, wear cotton gloves or a cotton finger sack. (Gloves made of nylon or other similar material are undesirable. The static electricity on your body can be easily discharged by wrapping a ground wire around your wrist.)



4. Short all the pins of the IC before beginning any work. Also ground the soldering iron.





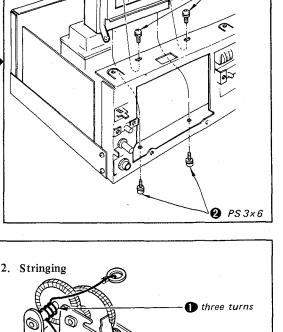


STRINGING OF CASSETTE HOLDER DAMPER

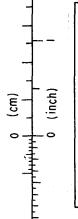
plastic washer,

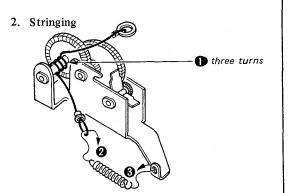
cord 0.5 mm dia.

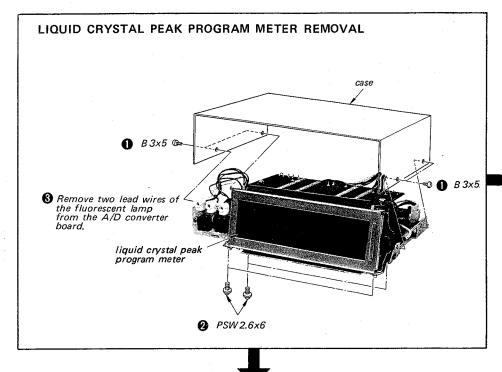
1. Preparation

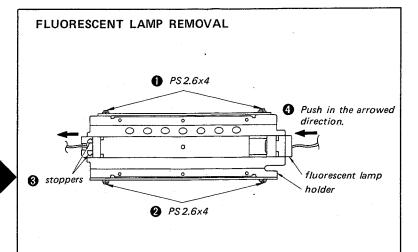


3 tape recorder deck mechanism



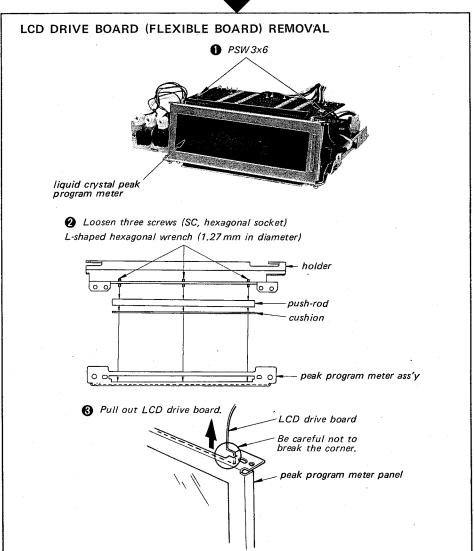






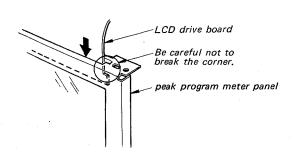
#### Caution:

Since the LCD drive board is easy to remove, when removing the fluorescent lamp, be careful not to break the corner of the LCD drive board.

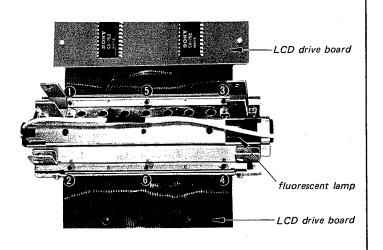


## INSTALLATION OF LCD DRIVE BOARD

1. Insert the LCD drive board in the arrowed direction.

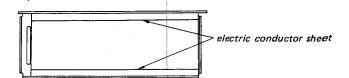


2. Tighten six screws (SC, hexagonal socket) in the numerical order ((1) - (6)).



### SERVICING PRECAUTIONS

- \* The liquid crystal peak program meter assembly and the LCD (liquid crystal) drive board are connected by electric conductor sheets (the black bands). This conductor plate is "pasted" onto the liquid crystal assembly, and must not be removed during repairs.
- \* To check for any defects in the liquid crystal meter and the IC (CX-762), interchange the L-CH and R-CH input connectors to the flexible circuit board
- \* Since the LCD drive section is mounted on a flexible circuit board, be particularly careful whenever removing and re-installing.
- \* The liquid crystal drive IC (CX-762) is a MOS-IC which also must be handled with considerable care.



- 0.5-1.0 mm

# SECTION 3 ADJUSTMENT

#### **PRECAUTION**

1. Clean the following parts with a denatured-alcoholmoistened swab:

record/playback head erase head

capstan

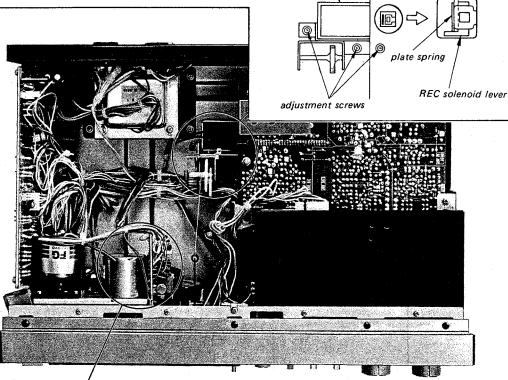
pinch roller rubber belts idlers

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply a suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

### 3-1. MECHANICAL ADJUSTMENTS

#### Record Solenoid Position Adjustment

Adjust the record solenoid position to obtain the specified clearance between plate spring and record solenoid lever.



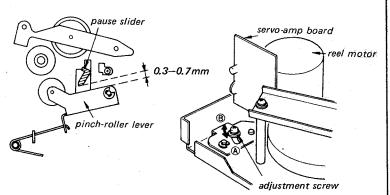
record solenoid (PM3)

## Pause Lever Position Adjustment

#### - PAUSE mode -

Loosen the adjustment screw and slide it in the direction (A) or (B) to obtain the specified clearance as shown below.

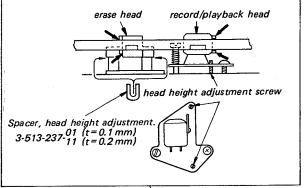
Sliding direction of adjustment screw	Clearance
direction (A)	narrow
direction (B)	wide



## Tape Path Adjustment

### - playback mode -

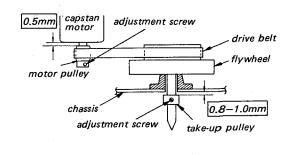
- 1. Adjust erase head height by adding or removing spacer to eliminate tape curl at the erase head.
- 2. Adjust record/playback head height adjustment screw to eliminate tape curl at the record/playback head.

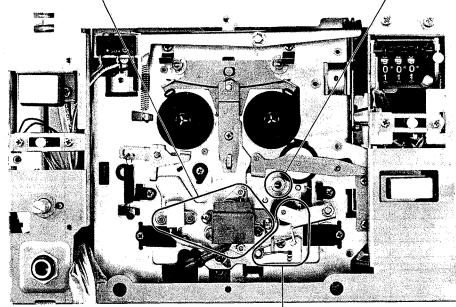


#### Pulley Height Adjustment

#### - stop mode -

Adjust position of capstan motor pulley and take-up pulley to obtain the specified clearances as shown below.

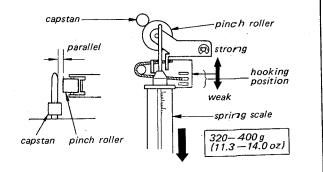




## Pinch Roller Pressure Adjustment

## - playback mode -

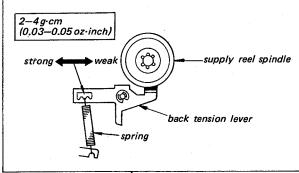
- 1. Pull the spring scale.
- 2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
- 3. If necessary, change the hooking position.



## Forward Back Tension Torque Adjustment

## - playback mode -

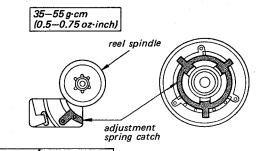
- 1. Place the type CQ-101 cassette torque meter in the set.
- 2. Adjust the spring-hook position to obtain the specified torque.

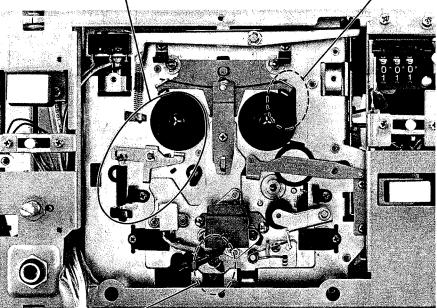


#### Forward Torque Adjustment

#### - playback mode -

- Place the type CQ-101 cassette torque meter in the set.
- 2. Adjust the position of the adjustment spring catch using a suitable pin and turning the reel spindle to obtain the specified torque.

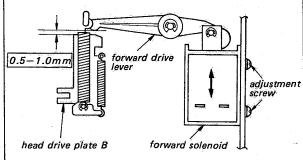




## Forward Solenoid Position Adjustment

### - playback mode -

Adjust the position of the forward solenoid to obtain the indicated clearance between the forward drive lever and head drive plate B.



#### Fast Forward and Rewind Torque Measurement

Use type CQ-201 cassette torque meter. Fast Forward Torque: 75-130 g·cm

e: 75-130 g·cm (1.1-1.8 oz inch)

Rewind Torque:

75-130 g·cm (1.1-1.8 oz·inch)

### 3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

## Test Equipment/Tools Required:

audio oscillator (af osc) VTVM digital frequency counter speed checker SONY LFM-30 oscilloscope attenuator (600  $\Omega$ ) non-magnetic screwdriver resistors ... 600  $\Omega$  (½ W), 10 k $\Omega$  (½ W), 100 k $\Omega$  (½ W) blank tapes (completely erased with bulk eraser) SONY CS-10 (HF), CS-20 (CrO<sub>2</sub>), CS-30 (Fe-Cr)

BIAS and EQ switch settings in accordance with tape used are as follows.

Таре	BIAS switch	EQ switch
CS-10	NORMAL	NORMAL
CS-20	HIGH	CrO <sub>2</sub>
CS-30	NORMAL	Fe-Cr

SONY test tapes

P-4-A81S (6.3 kHz, -10 dB) P-4-A82 (10 kHz, -10 dB) P-4-L81 (333 Hz, 0 dB) WS-48 (3 kHz, 0 dB)

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF

LINE OUT control: MAX
EQ switch: NORMAL

BIAS switch: NORMAL

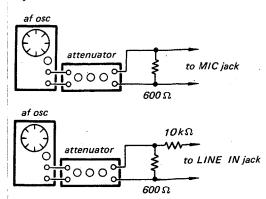
HEADPHONE LEVEL: MAX
TIMER switch: OFF

MEMORY switch: OFF LIMITER switch: OFF

REC MUTE switch: OFF

### **Test Equipment Connections:**

Input side:



#### Standard Record:

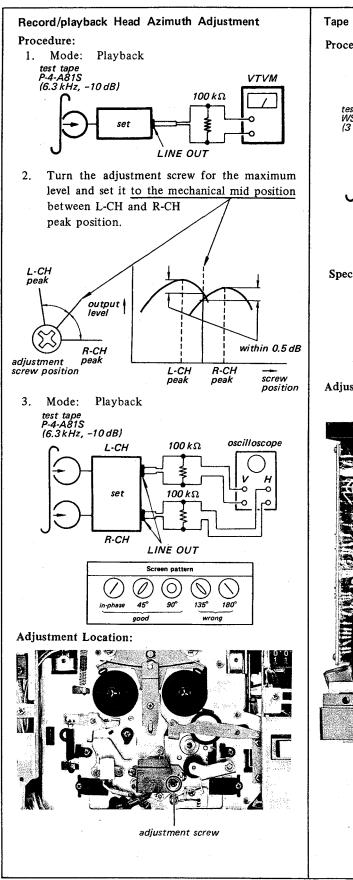
Supply the standard input level signal to the input jack and set the MIC or LINE control to obtain the standard output level signal. Set the LINE control to MIN when MIC is used or set MIC control to MIN when LINE IN is used.

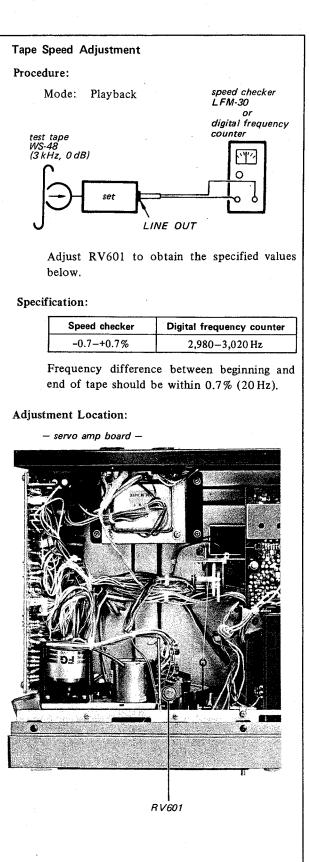
## Standard Input Level

	MIC	LINE IN		
source impedance	300Ω	10 kΩ		
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)		

## Standard Output Level

	LINE OUT	HEADPHONES
load impedance	100 kΩ	8Ω
output level	0.775 V (0 dB)	0.12V (-16 dB)

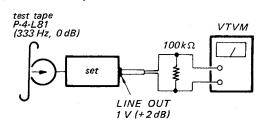




### Playback Level Adjustment

#### Procedure:

1. Mode: Playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain 1V (+2 dB) VTVM reading.

2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

## Specification:

LINE OUT level:

 $0.92 - 1.05 \,\mathrm{V}$ 

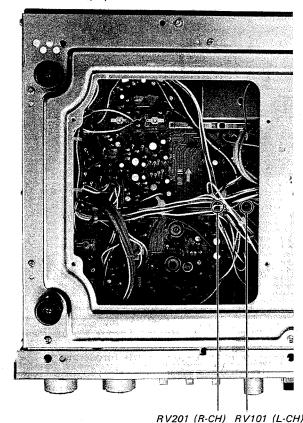
(+1.5-+2.5 dB)

Level difference between channels:

less than 0.5 dB

#### Adjustment Location:

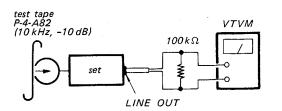
- record/playback board -



#### Playback Equalizer Adjustment

#### Procedure:

Mode: Playback

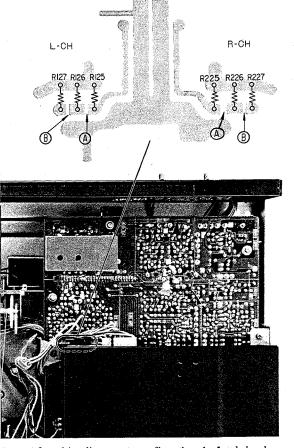


Adjust pattern connections for 0.27-0.37V (-9.5 - -6.5 dB) VTVM reading.

#### Adjustment Location:

- record/playback board -

Pattern connection	VTVM reading				
(open)	up				
A					
(A) and (B)	down				

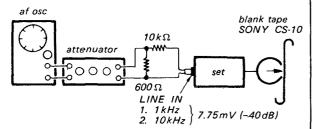


Note: After this adjustment, confirm the playback level.

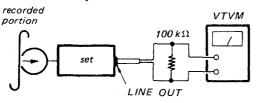
## Record Bias Adjustment

### Procedure:

1. Mode: Standard record (See page 18.)



2. Mode: Playback



Adjust C508 (L-CH) and C509 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

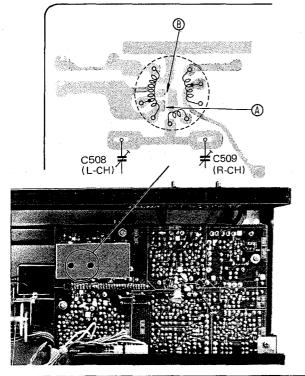
Level difference between the two output levels: within 0.5 dB

## Adjustment Location:

Note: Normally, patterns at (A) are bridged.

If adjustment is not made with trimmers fully tightened, remove solder bridge at (A) and bridge patterns at (B), and repeat the adjustment.

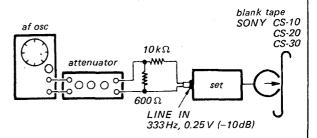
- record/playback board -



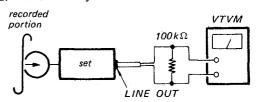
### Record Level Adjustment

#### Procedure:

1. Mode: Standard record (See page 18.)



2. Mode: Playback



Adjust RV102 (L-CH) and RV202 (R-CH) to obtain  $0.775\,\mathrm{V}$  (0 dB) VTVM reading.

#### Specification:

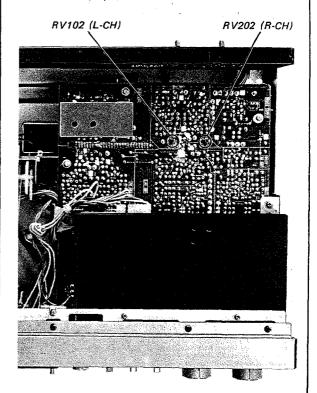
LINE OUT level:

 $0.73 - 0.81 \,\mathrm{V}$ 

(-0.5-+0.5 dB)

#### Adjustment Location:

- record/playback board -

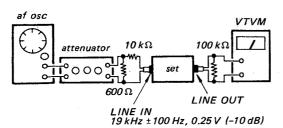


## MPX Filter Adjustment

#### Procedure:

Mode: Standard record (See page 18.)

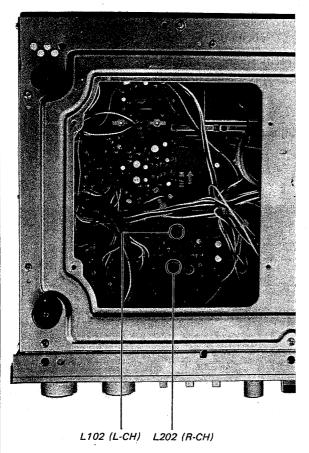
DOLBY NR switch: ON



Adjust L102 (L-CH) and L202 (R-CH) for 25 mV (-30 dB) or less VTVM reading.

#### Adjustment Location:

- record/playback board -

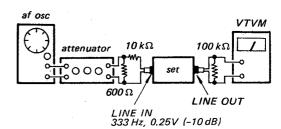


## Liquid Crystal Peak Program Meter Offset/Gain Adjustment

#### Offset Adjustment

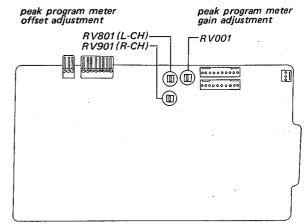
#### Procedure:

Mode: Standard record (See page 18.)



Adjust RV801 (L-CH) and RV901 (R-CH) so that the indication element of the meter places at  $-4 \text{ dB} \pm 1$  element.

#### Adjustment Location:



- A/D converter board -

#### Gain Adjustment

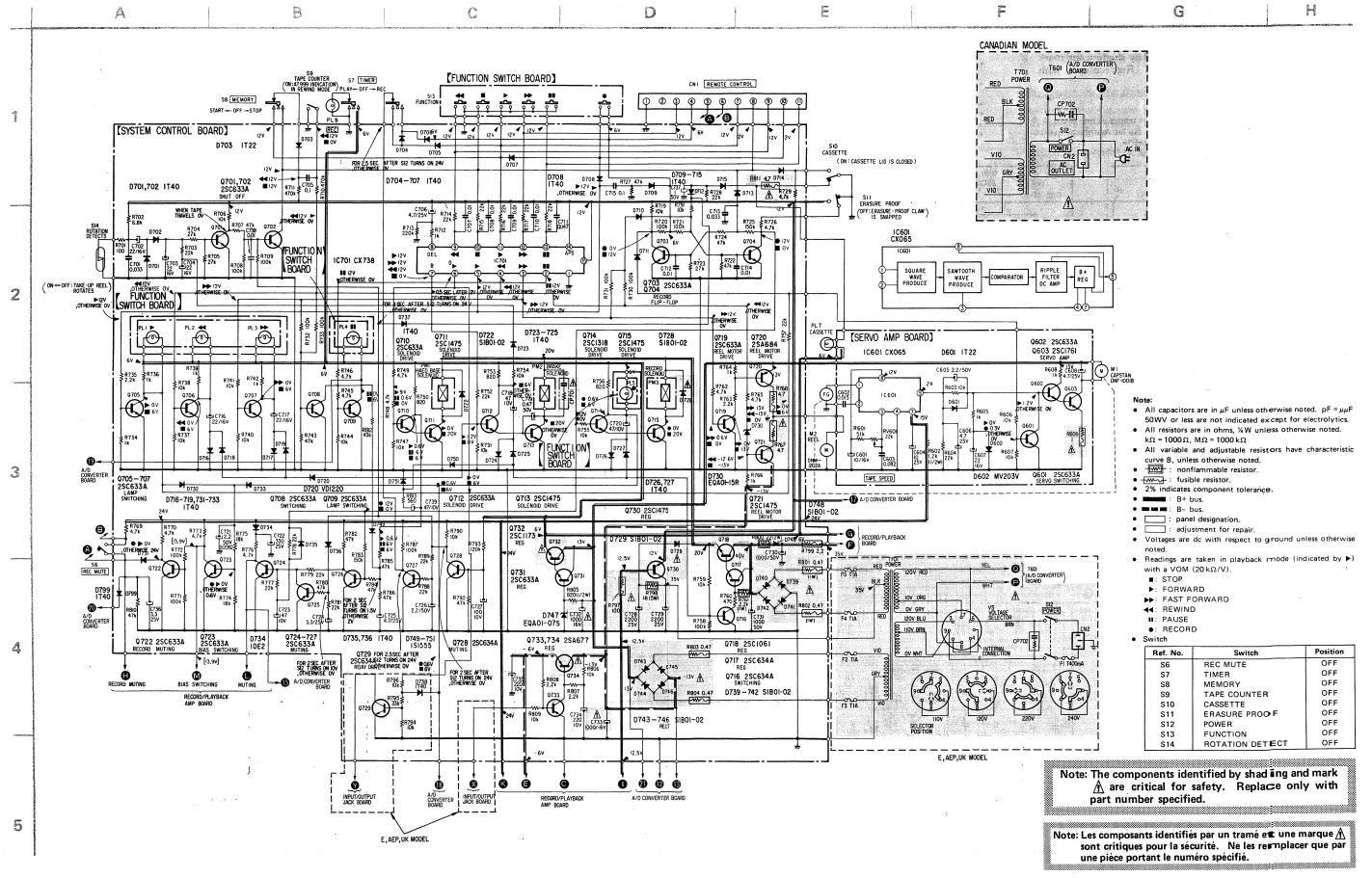
#### Procedure:

Mode: Standard record (See page 18.)

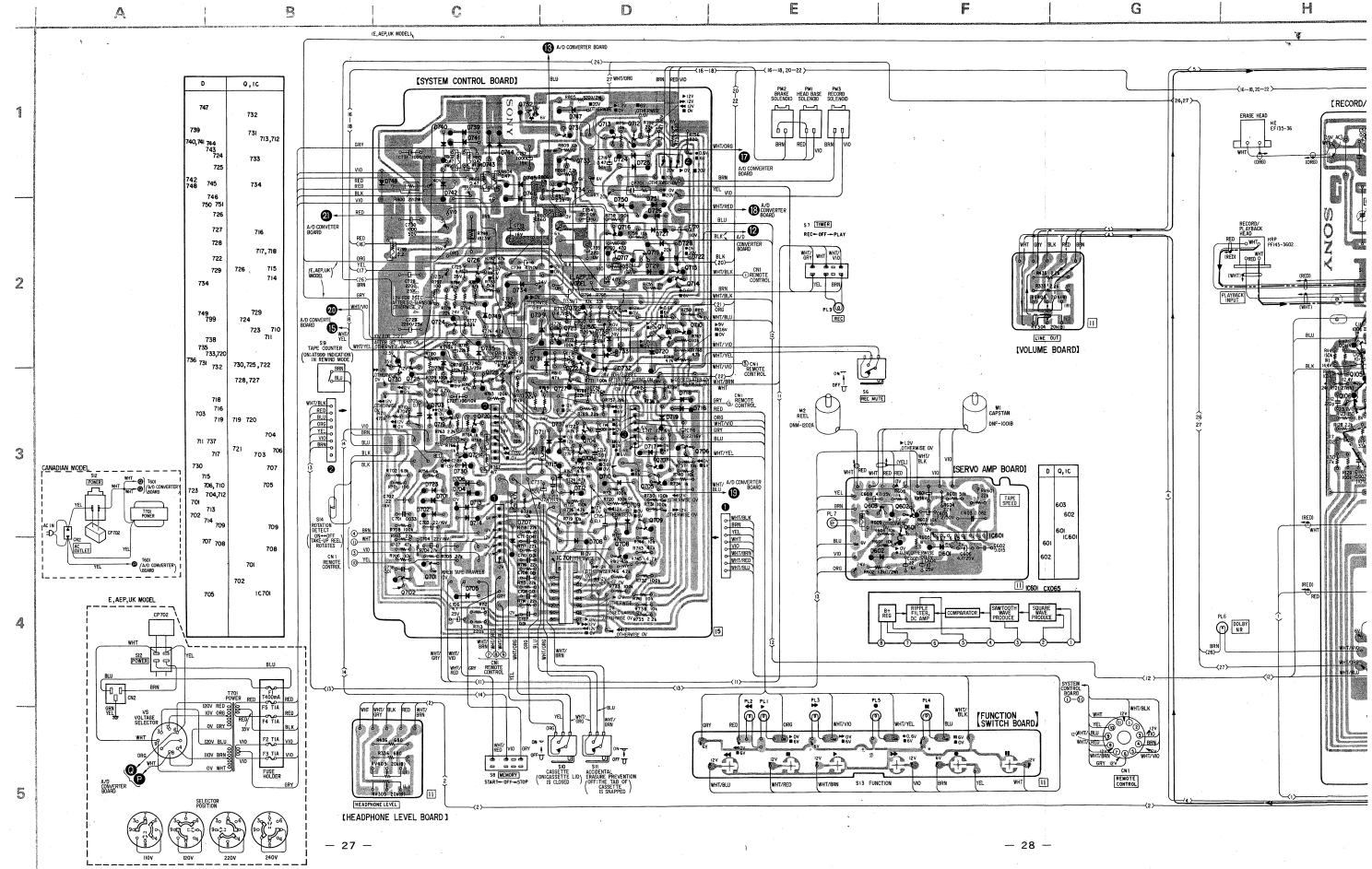
By varying LINE IN level for the specified LINE OUT level, adjust RV001 so that the indication element places at the following position.

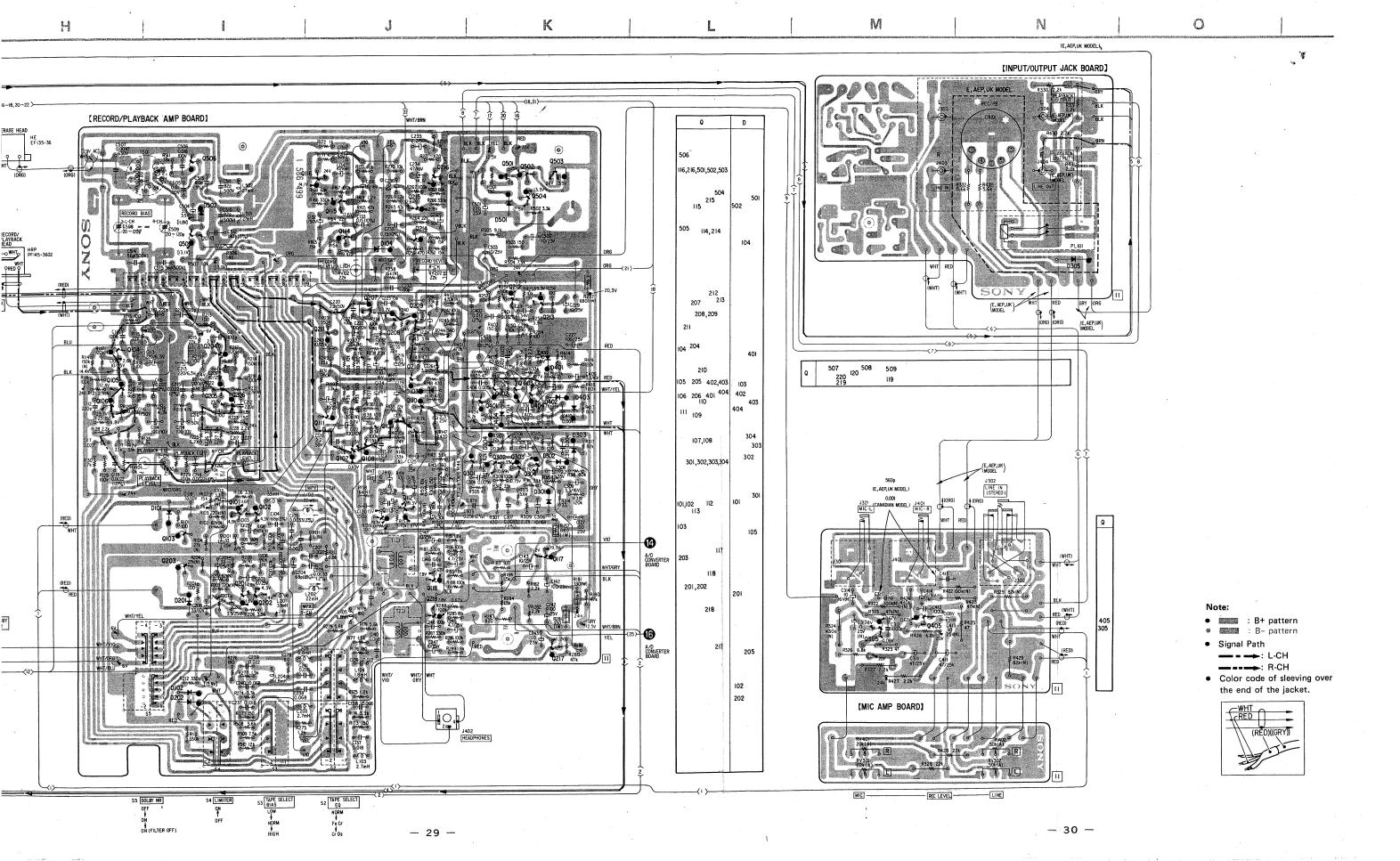
LINE OUT	Indication Element Position
8 dB	4 dB ± 1 element
4 dB	0 dB ± 1 element
-6 dB	-10 dB ± 1 element
-26 dB	-30 dB ± 1 element
-41 dB	the leftmost element only

## 4-2. SCHEMATIC DIAGRAM - System Control Section -



System Control, Headphone Level, Line Out, Servo Amp, Function Switch, Record/Playback, Input/Output Jack, Mic Amp Circuit Board.





A/D Converter, LCD Drive Circuit Board

## • A/D CONVERTER BOARD

### Replacement Semiconductors

For replacement, use semiconductors except in ( ).

IC1-3, 5: μPC4558C (μPC4558) IC4, 11: μPC1458C (μPC1458)



IC6: TC4024P (TC4024) IC7-9: CD4069 IC12: TC4081P (TC4081) IC13: TC4068P (TC4068)



IC15: μPC78L05



IC16: μΑ79M05



IC801, 802, 901, 902: CX762



Q001-003, 801: 2SC1364 (2SC1363)



D001-004 D801, 810}: 1S1555



## • RECORD/PLAYBACK AMP BOARD

## Replacement Semiconductors

For replacement, use semiconductors except in ( ).

Q101, 102, 104—107 Q112, 305, 201, 202 Q204—207, 212, 405 Q108, 109, 208, 209: 2SC1364 (2SC1345) Q103, 110, 111 Q114—118, 203, 210 Q211, 214—218 Q301—304, 401—404 Q504, 505, 728 Q502: 2SC1364



Q113, 213: 2SA678 (2SA677)



Q501: 2SK30A



Q503: 2SC1061



Q506: 2SC1475 (2SC1318)



D101, 201: 10E2 (V06C)
D102, 202
D502
D301, 302
D401, 402
D303, 304
D403, 404
: 1S1555



D103, 104 D203, 204 EQB01-11Z (EQA01-11) D501: EQB01-12Z (EQA01-12S)



## • SYSTEM CONTROL BOARD

## Replacement Semiconductors

For replacement, use semiconductors except in ( ).

Q601, 602, 701–710 Q712, 719, 722–729 }: 2SC1364 (2SC633A) D701, 702, 704–707 D709–721, 723–727 D731–733, 735–738 D749–751, 799 D722, 728, 729 D739–746, 748 }: 10E2 (SIB01-02) D734: D601, 703, 708: Cathode Control of the Control of

D730: EQB01-15 (EQA01-15R) D747: EQB01-07 (EQA01-07S)

D602: MV203V





Q718: 2SC1061 Q732: 2SC1173



Q711, 713-715 }: 2SC1475 Q721, 730 }: 2SC1475 Q714: (2SC1318)



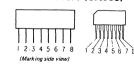
Q603: 2SC1760 (2SC1761)



Q720: 2SA684

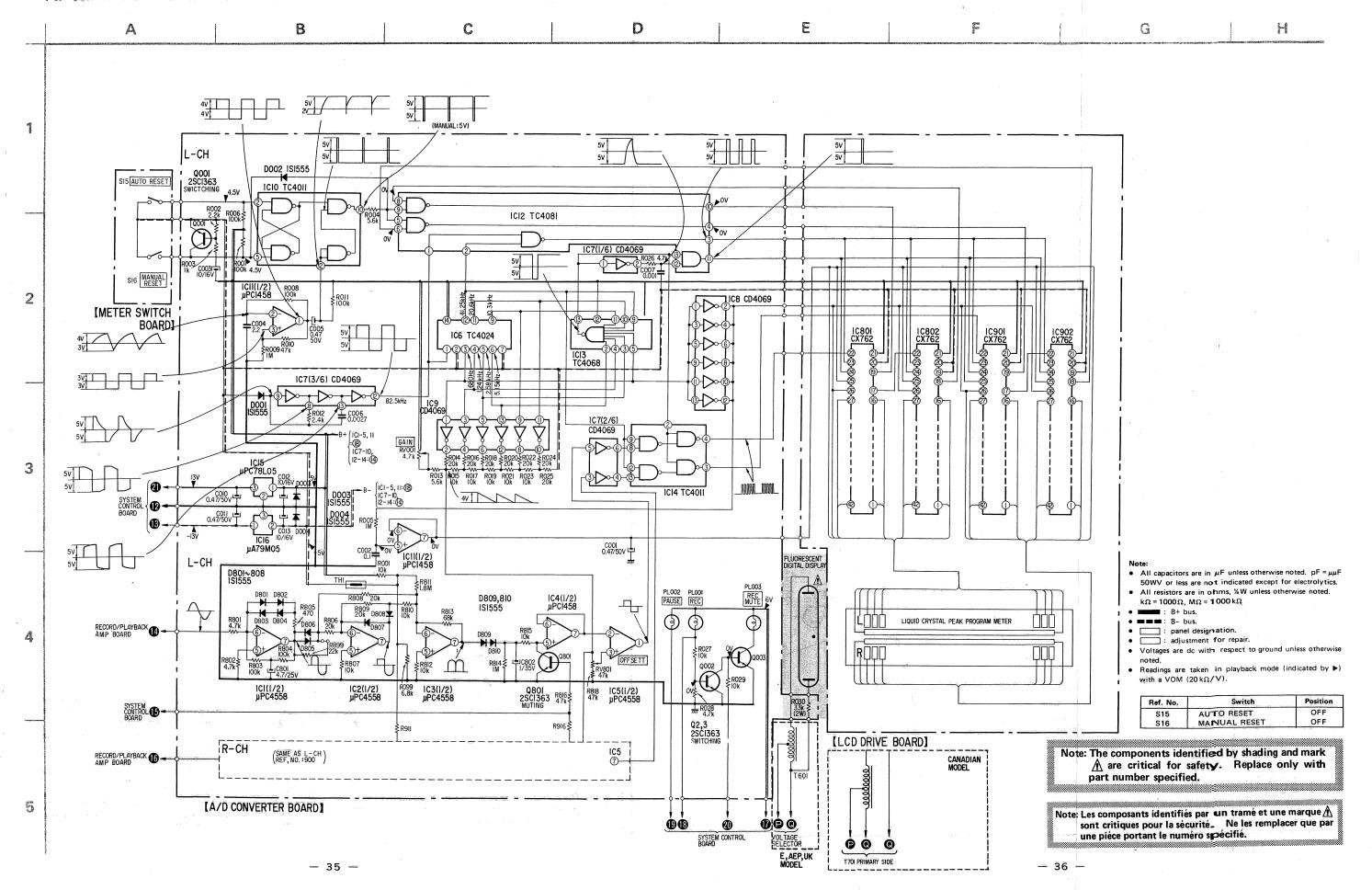


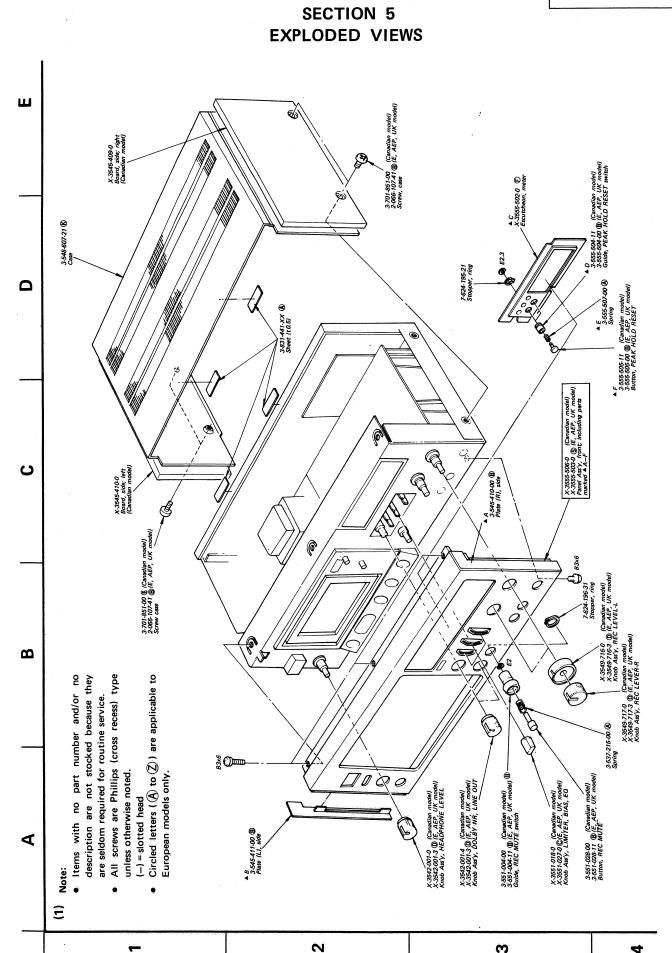
IC601: CX065A (CX065)



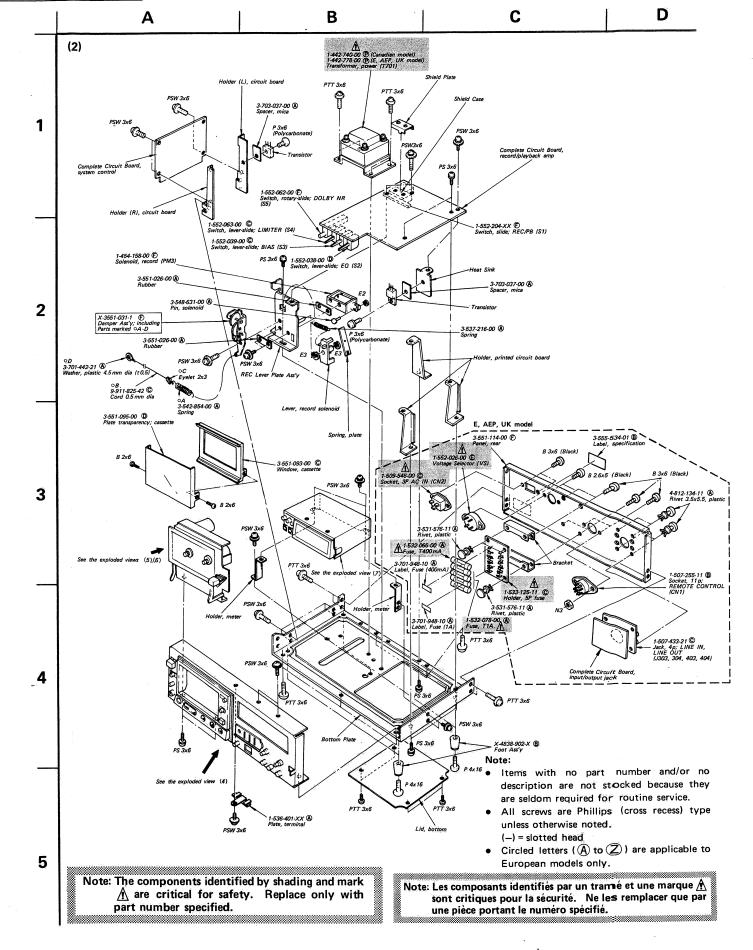
## IC701: CX738A (CX738)

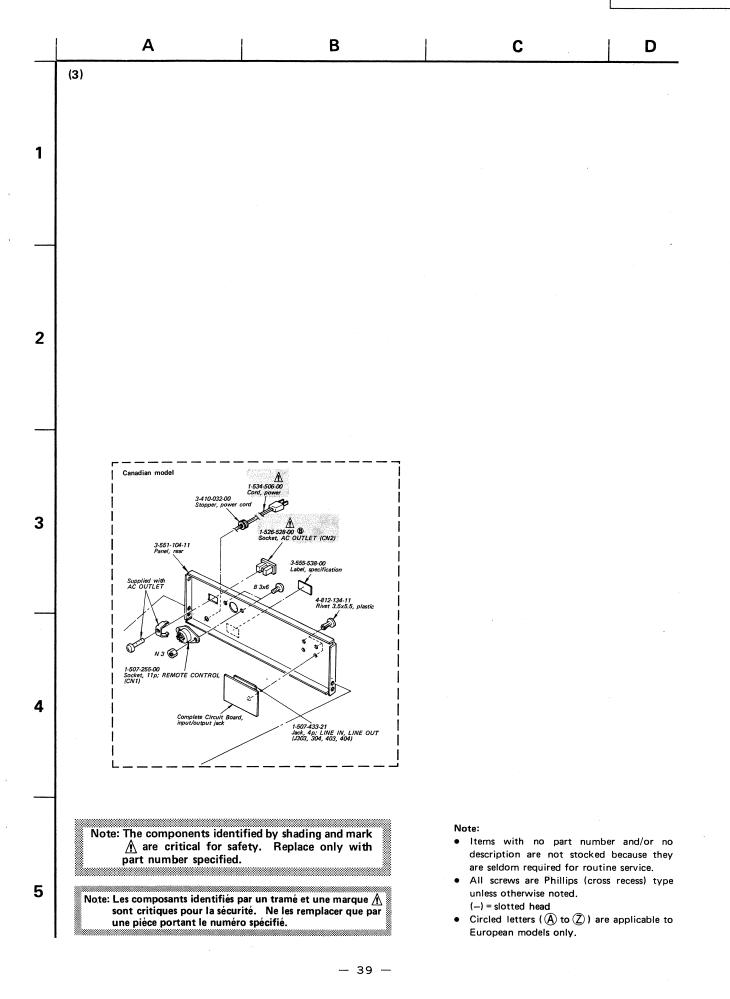


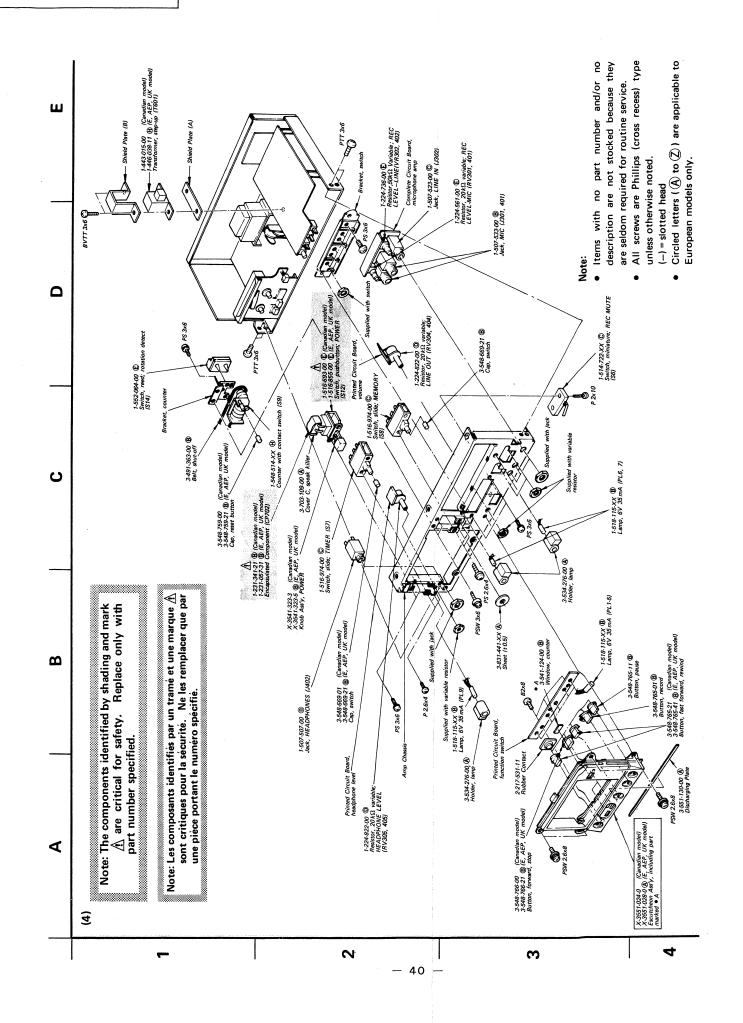


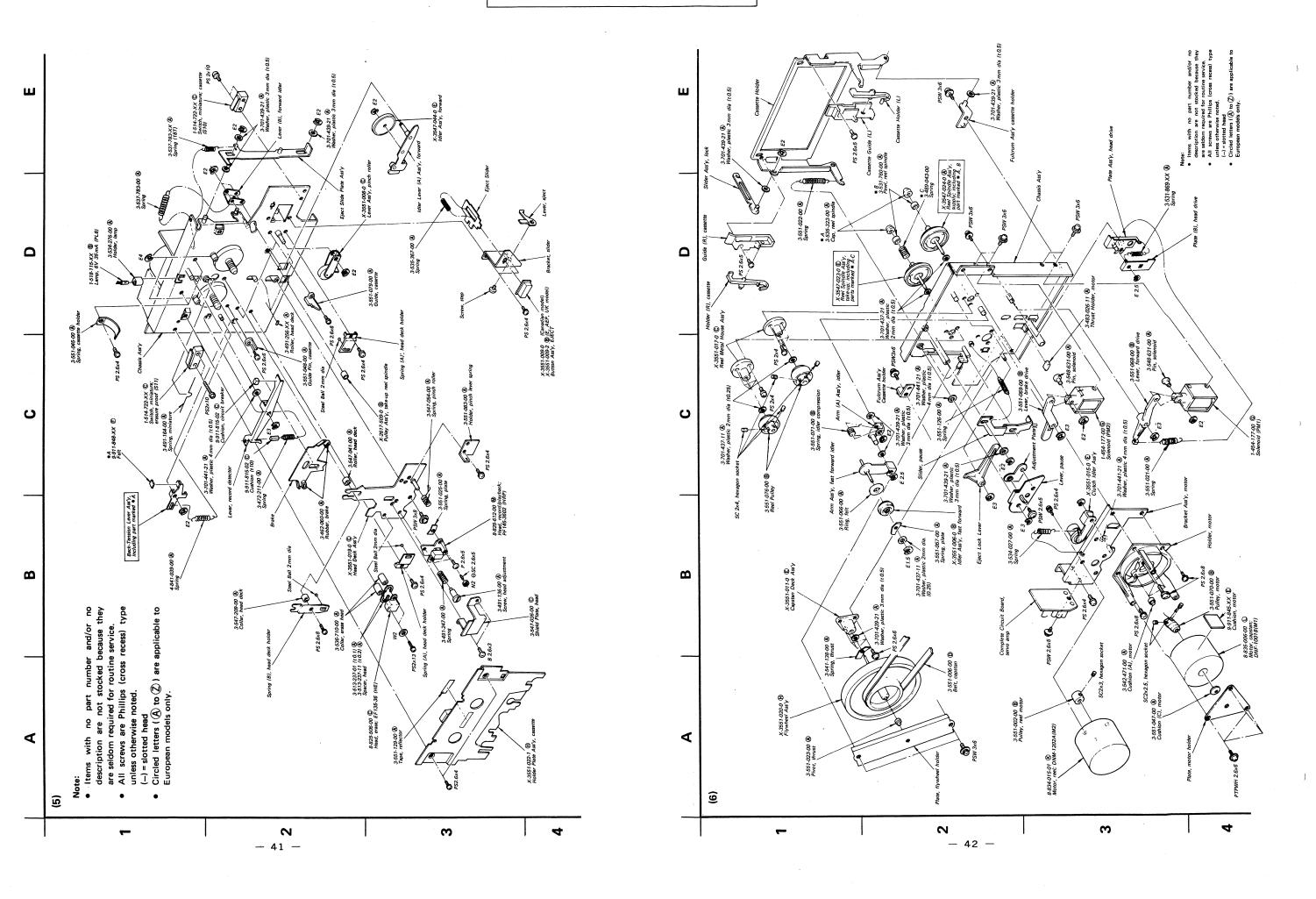


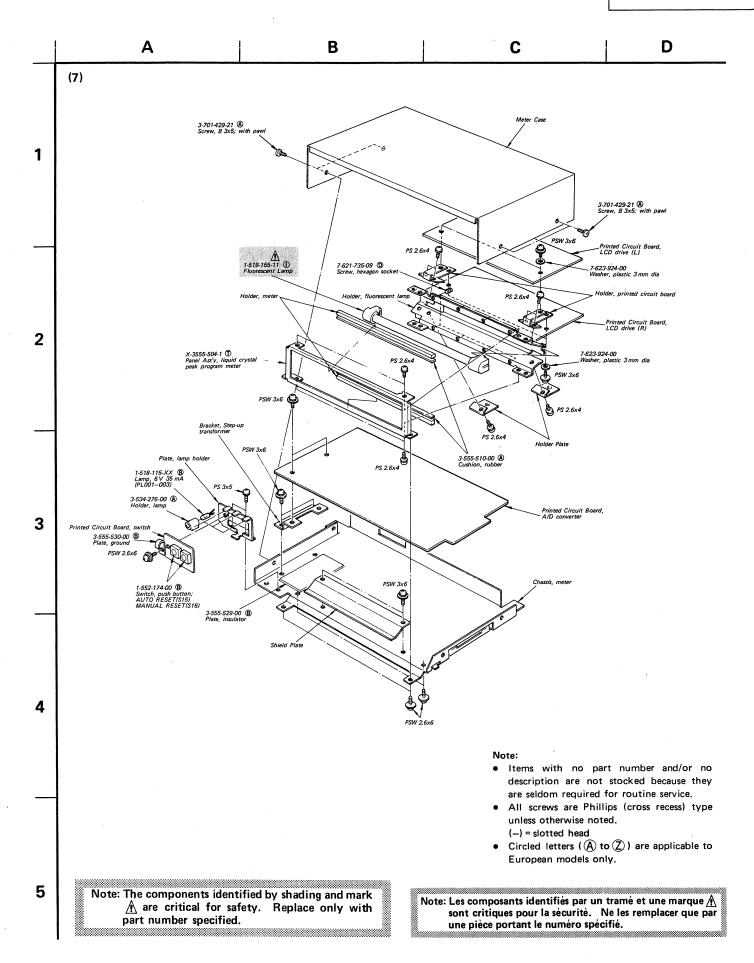
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## 1/4 WATT CARBON RESISTORS (A)

Note: Circled letter (A) is applicable to European model only.

											European in		
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10 k			1-244-721-11		
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11				1-244-722-11		
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12 k	1-244-699-11	120 k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13 k	1-244-700-11	130 k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15 k	1-244-701-11	150 k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16 k	1-244-702-11	160 k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11		1-244-655-11		1				1-244-737-11		
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20 k	1-244-704-11	200 k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11				1-244-729-11		
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24 k	1-244-706-11	240 k	1-244-730-11	2.4M	1-244-754-11
								07.1	1 044 505 11	0701	1-244-731-11	2 714	1-944-755-11
2.7	1-244-611-11	27	1-244-635-11	270							1-244-731-11		
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11		-				1-244-732-11		
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11			33 K 36 k			1-244-733-11		
3.6	1-244-614-11	36	1-244-638-11		1-244-662-11	1		30 K		1	1-244-734-11		
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9K	1-244-087-11	39 K	1-244-711-11	390 K	1-244-733 11	3.5141	1 244 100 11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3 k	1-244-688-11				1-244-736-11		
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47 k		1	1-244-737-11	1	
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51 k	1-244-714-11	510 k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56 k	1-244-715-11	560 k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644 11	620	1-244-668-11	6.2k	1-244-692-11	62 k	1-244-716-11	620 k	1-244-740-11		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6 8 1	1-244-603-11	68 k	1-244-717-11	680 k	1-244-741-11		
7.5	1-244-621-11	75	1-244-646-11	)	1-244-670-11				1-244-718-11	1 1			
8.2	1-244-623-11	82	1-244-647-11		1-244-671-11	1		82 k	1-244-719-11	1			
9.1	1-244-624-11		1-244-648-11		1-244-672-11	1		91 k	1-244-720-11				
9.1	1-244-024-11	21	1 244 046 11	310	1 244 012 11	J.1 K	244 050 11	71 K	11	J. V. K	. 3		

### HARDWARE NOMENCLATURE

Tew:

P 3 x 10

L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means
cross-recessed head (Phillips type).

Reference Designation	Shape	Description	Remarks	
		SCREWS		
Р	₽	pan-head screw	binding-head (B) screw for replacement	
PWH	<b>₽</b>	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement	
PS PSP	85	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment	
PSW PSPW	<del>(M)</del>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement	
R	₽	round-head screw	binding-head (B) screw for replacement	
K	Þ	flat-countersunk-head screw		
RK	₽	oval-countersunk-head screw		
В	₽	binding-head screw		
Т	(₽	truss-head screw	binding-head (B) screw for replacement	
F	₽⊃	flat-fillister-head screw	]	
RF	€⊇	fillister-head screw		
BV	€>	braizer-head screw		

#### , Washer, Retaining ring:

N 3

——Diameter of usable screw or shaft

Reference designation

Reference Designation		Description	Remarks				
SELF-TAPPING SCREWS							
TA	(H)	self-tapping screw	ex: TA, P 3 x 10				
PTP		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement				
PTPWH	<b>+</b>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement				
		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement				
		SET SCREWS					
sc	-	set screw					
sc	-9E3-	hexagon-socket set screv	ex: SC 2.6 x 4, hexagon socket				
		NUT					
N	-[]-@-	nut					
		WASHERS					
w	0	flat washer					
SW	<b>-⊚-</b> {-	spring washer					
LW	0	internal-tooth lock washer	ex: LW3, internal				
LW	0	external-tooth lock washer	ex: LW3, external				
RETAINING RINGS							
Е	0	retaining ring	1.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4				
G	0	grip-type retaining ring					

Circled letters ( A to Z ) are applicable to European models only.

## **SECTION 6 ELECTRICAL PARTS LIST**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	SEMIC	CONDUCTORS	⇒ Q731	8-729-663-47	<b>B</b> 2SC1364
			CONTRACTOR SECTION SERVICES AND ARRESTS AN	8-729-217-33	© 2SC1173
	-	Transistors	⇒ Q733	8-727-788-00	<b>B</b> 2SA678
			The state of the state of the state of	8-727-788-00	B 2SA678
⇒ Q001-003	8-729-663-47	<b>B</b> 2SC1364	a service and a service	→ ART OF THE PROPERTY OF T	Control of the section of the sectio
⇒ Q001-005	0-725 005 17	<b>2</b> 50100.	⇒ Q801	8-729-663-47	<b>B</b> 2SC1364
⇒ Q101,201		•			_
$\Rightarrow Q102,202$	8-729-665-47	<b>B</b> 2SC1362			ICs
⇒ Q103,203	8-729-663-47	(B) 2SC1364			
$\Rightarrow$ Q104-107			⇒ IC1-3	8-759-145-58	μPC4558C
$\Rightarrow$ Q204-207	8-729-665-47	(B) 2SC1362	⇒ IC4	8-759-114-58	μPC1458C
, 220, 20,			⇒ IC5	8-759-145-58	μPC4558C
⇒ Q108-111,			⇒ IC6	8-759-240-24	TC4024P
$\Rightarrow$ Q208-211	8-729-663-47	B 2SC1364	IC7-9	8-759-940-69	CD4069
⇒ Q112,212	8-729-665-47	<b>B</b> 2SC1362			
⇒ Q113,213	8-727-788-00	B 2SA678	⇒ IC10	8-759-240-11	TC4011P
$\Rightarrow$ Q114-120			⇒ IC11	8-759-114-58	μPC1458C
$\Rightarrow$ Q214-220	8-729-663-47	<b>B</b> 2SC1364	⇒ IC12	8-759-240-81	TC4081P
. 221			⇒ IC13	8-759-240-68	TC4068P
⇒ Q301-304			⇒ IC14	8-759-240-11	TC4011P
$\Rightarrow Q401-404$	8-729-663-47	(B) 2SC1364			
⇒ Q305,405	8-729-665-47	<b>B</b> 2SC1362	IC15	8-759-178-05	μPC78L05
, <b>Q</b> ,			IC16	8-759-979-05	μΑ79Μ05
⇒ Q501	8-729-203-04	B 2SK30A	*		
⇒ Q502	8-729-663-47	<b>B</b> 2SC1364	⇒ IC601	8-759-600-65	© CX065A
	8-729-316-12	① 2SC1061			
⇒ Q504,505	8-729-663-47	B 2SC1364	⇒ IC701	8-759-107-38	① CX738A
⇒ Q506	8-760-413-10	<b>B</b> 2SC1475			
⇒ Q507-509	8-729-663-47	® 2SC1364	IC801,802 IC901,902	8-759-907-62	CX762
⇒ Q601,602	8-729-663-47	<b>B</b> 2SC1364			
⇒ Q603	8-763-314-00	© 2SC1760			Diodes
					_
$\Rightarrow$ Q701-710	8-729-663-47	<b>B</b> 2SC1364	D001-004	8-719-815-55	<b>B</b> 1S1555
Q711	8-760-413-10	<b>B</b> 2SC1475			
⇒ Q712	8-729-663-47	<b>B</b> 2SC1364	⇒ D101,201	8-719-200-02	_
Q713-715	8-760-413-10	© 2SC1475	⇒ D102,202	8-719-815-55	<b>B</b> 1S1555
$\Rightarrow$ Q716,717	8-729-663-47	<b>B</b> 2SC1364	⇒ D103,104	8-719-930-11	® EQB01-11Z
. 1000-0000 00000 Married 1987 (\$1000 00 1,000	en op op Groupeson straster Produkel (25		⇒ D203,204'		
Q718 /	8-729-316-12	① 2SC1061	⇒ D105,205	8-719-422-21	(A) 1T22AM
⇒ Q719	8-729-663-47	<b>B</b> 2SC1364			
Q720	8-729-468-43	© 2SA684	⇒ D301,401	8-719-422-21	(A) 1T22AM
Q721	8-760-413-10	_	$\Rightarrow$ D302,402		$\smile$
⇒ Q722-728	8-729-663-47	® 2SC1364	D303,403	8-719-815-55	<b>B</b> 1S1555
⇒ Q729	8-729-663-47	B 2SC1364 (E, AEP, UK model)	D304,404)		_
Q730/	<u>^</u> 8-760-413-10	© 2SC1475	⇒ D305	8-719-815-55	B 1S1555 (E, AEP, UK model

<sup>⇒:</sup> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	_
⇒ D501	8-719-930-12	<b>B</b> EQB01-12Z	
⇒ D501 ⇒ D502	8-719-815-55	B 1S1555	
J 2002	• , 25		
⇒ D601	8-719-422-21	(A) 1T22AM	
⇒ D602	8-719-920-30	B MV203V	4
⇒ D701,702	8-719-815-55	<b>B</b> 1S1555	
⇒ D703		(A) 1T22AM	
$\Rightarrow$ D704-707	8-719-815-55		
⇒ D708	8-719-422-21	(A) 1T22AM	
$\Rightarrow$ D709-721	8-719-815-55	<b>B</b> 1S1555	
⇒ D722	8-719-200-02	<b>B</b> 10E2	
$\Rightarrow$ D723-727		<b>B</b> 1S1555	
		<b>B</b> 10E2	
⇒D729 <u>/</u>	8-719-200-02		
⇒ D730	8-719-931-15	<b>B</b> EQB01-15	
$\Rightarrow$ D731-733	8-719-815-55		
D734	8-719-200-02		
$\Rightarrow$ D735-737	8-719-815-55		
⇒ D738		(B) 1S1555 (E, AEP, UK model)	
⇒ D739-746 ∠	<u></u> <b>8-719-200-02</b>	<b>B</b> 10E2	
⇒ D747	8-719-931-07		
	<u> </u>		
$\Rightarrow$ D749-751	8-719-815-55	® 1S1555	
D801-810	8-719-815-55	® 1S1555	
Th1	1-800-202-XX	Thermistor, S-10K	
		COILS	
L101,201	1-407-879-00	B 33 mH, microinductor	
	1-407-240-00	B 22 mH, variable inductor	
L102,202	1-407-240-00 1-407-199-XX	<u> </u>	
L103,203 L104,204	1-407-197-XX	ā	
L105,205	1-407-204-XX	ā	
1103,203		( ) 0.0 mil, meremines	
L501,502	1-407-211-XX	(A) 27 mH, microinductor	
	TRA	ANSFORMERS	
		·	
T101,201	1-427-284-00	© Output	

<sup>⇒:</sup> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. Note: Circled letters ( A to Z ) are applicable to European models only.

	Ref. No.	Part No.	Description		
-	T501	1-433-132-11	© Osc		
	T601	(1-446-038-00 1-443-015-00	(I) Step-up (I) Step-up (I)		
	T701 { \( \frac{1}{2} \)	1-442-778-00 1-442-740-00	Power (E,	AEP, U anadian	JK model) model)
		CA	PACITORS		
	Al	l capacitors are in	n μF and cera	ımic un	less
	otl	herwise noted.			
	50 ele	WV or less are nectrolytics. pF: µ	$\mu$ F, elect = el	ectroly	tic
			© 0.47	50 V	elect
	C001	1-121-726-11	<ul><li>B 0.47</li><li>B 0.1</li></ul>	30 V	mylar
	C002	1-108-603-12 1-121-968-11	B 10	16 V	elect
	C003 C004	1-123-230-11	B 2.2	50V	elect
	C004	1-121-726-11	B 0.47	50V	elect
	0003	1-121 /20 11	<b>D</b> 31		
	C006	1-102-122-11	A 0.0027		
	C007	1-102-074-11	<b>(A)</b> 0.001		
	C010,011	1-121-726-11	® 0.47	50V	elect
	C012,013	1-121-968-11	<b>B</b> 10	16 V	elect
			<b>a</b>	2517	alaat
	C101,201	1-121-404-11	B 33	25 V 25 V	
	C102,202	1-121-913-11	® 3.3	25 V 25 V	
	C103,203	1-121-398-11	B 10	23 V	silvered mica
	C104,204	1-107-081-11	B 68p B 0.0033		polyethylene
l	C105,205	1-129-794-11	B 0.0033		poryettry teste
	C106,206	1-108-569-12	® 0.0039		mylar
	C107,207	1-108-563-12	B 0.0022		mylar
	C108,208	1-121-402-11	B 33	10V	elect
	C109,209	1-121-398-11	B 10	25 V	elect
	C110,210	1-102-110-11	(A) 220p		
	,				
	C111,211	1-102-106-11	A 100p		
	C112,212	1-102-110-11			
	C113,213	1-121-419-11	<b>B</b> 220	6.3 V	
	C114,214	1-121-414-11	<b>B</b> 100	10V	
	C115,215	1-130-072-11	<b>B</b> 0.022	100V	polystyrol
			<b>.</b>	E037	alaat
	C116,216	1-121-391-11	® 1	50V	
	C117,217	1-108-589-12	<b>B</b> 0.027		mylar

Note: Les composants identifiés par un tramé et une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters ( A to (2)) are applicable to European models only.

Note: Circled letters ( (A) to (Z)) are applicable to European models only.

Ref. No.	Part No. Description	Ref. No. Part No. Description	Ref. No. Part No.	Description	Ref. No. Part No. Description	
C118,218	1-108-230-12 <b>(A)</b> 0.0022 mylar	C311,411 1-121-410-11 B 47 25V elect	C714 1-161-013-11	(A) 0.01 ceramic	R761 1-213-147-11 A 2.2 k 1W 5% metal oxide	
C119,219	1-121-404-11 B 33 25V elect	C312,412 1-102-074-11 <b>(A)</b> 1000p	· .	(boundary layer)	R767,768 1-217-383-11 B 4.7 4W 5% fusible	
C120,220	1-121-450-11 B 2.2 50V elect	C313,413 1-121-748-11 ® 10 25V elect	C715 1-161-025-11	B 0.1 ceramic	R797 1-217-399-11 B 100 W fusible	
C121,221	1-102-106-11 (A) 100p	C314,414 1-121-916-11 ® 10 16V elect		(boundary layer)	R798 1-217-301-11 18 5W wirewound	
C122,222	1-121-414-11 B 100 10V elect	1-102-115-11 <b>(A)</b> 560p (E, AEP, UK mode	C716,717 1-121-479-11	B 22 16 V elect	R799 A 1-217-379-11 B 2.2 W 5% fusible	
		1-102-074-11 (A) 0.001 (Canadian model)	C718 1-121-352-11	<u> </u>		
C123,223	1-102-956-11 <b>(A)</b> 15 p		C719 1-121-726-11	B 0.47 50V elect	R800 A 1-206-471-11 B 22 2W metal oxide	
C124,224	1-121-651-11 B 10 16V elect	C501 1-121-422-11 <b>B</b> 220 25V elect			R801,802 1-217-465-11 0 0.37 1W fusible	
C125,225	1-121-398-11 B 10 25V elect	C502,503 1-121-398-11 ® 10 25V elect	C720 1-121-352-11	<u> </u>	R803,804 1-217-371-11 B 0.47 4W fusible	
C126,226	1-121-392-11 <b>B</b> 3.3 25 V elect	C504 1-131-218-11 (B) 3.3 35V elect	C721 1-121-986-11	<del>-</del>	R805 1-244-871-11 <b>A</b> 820 ½W carbon	
C127,227	1-121-416-11 B 100 25V elect	C505 1-108-377-12 <b>(A)</b> 0.01 100V mylar	C722 1-121-654-11	•	R811 <u>A</u> 1-217-383-11 <b>B</b> 4.7 4W fusible	
		C506 1-108-380-12 <b>(A)</b> 0.018 100V mylar	C723 1-121-975-11	<u> </u>		
C128,228	1-121-651-11 B 10 16V elect		C724 1-121-392-11	<b>B</b> 3.3 25 V elect	RV001 1-224-251-XX © 4.7 k, adjustable	
C129,229	1-121-398-11 B 10 25V elect	C507 1-129-710-11 <b>(B)</b> 0.0047 630V polyethy				
C130,230	1-102-108-11 (A) 150p	C508,509 1-141-010-XX (B) trimmer	C725 1-121-395-11	_	RV101,201 1-224-645-XX <b>(B)</b> 10 k, adjustable	
C131,231	1-102-956-11 <b>(A)</b> 15 p	C510,511 1-107-037-11 <b>(B)</b> 82p silvered		•	RV102,202 1-224-646-XX (B) 22 k, adjustable	
C132,232	1-121-391-11 <b>B</b> 1 50V elect	C512,513 1-107-137-11 ® 180p silvered			RV301,401 1-224-561-00 (Ē) 20 k, variable; REC LEVEL MIC	_
		C514,515 1-107-165-11 (B) 56p silvered	, <u>117</u>		RV301,401 1-224-561-00 (£) 20 k, variable; REC LEVEL MIC RV302,402 1-224-736-00 (£) 50 k/50 k, variable; REC LEVEL	
C133,233	1-108-252-12 <b>B</b> 0.15 mylar	GC01 1 121 (51 11 @ 10 1 1(V alast	C730,731 🛕 1-123-061-11	© 1000 50V elect	LINE	_
C134,234	1-121-409-11 B 47 16 V elect	C601 1-121-651-11 ® 10 16V elect	C732,733	(E) 1000 16 V elect		
C135,235	1-121-450-11 B 2.2 50V elect 1-121-651-11 B 10 16V elect	C602 1-108-583-12 (B) 0.015 mylar C603 1-130-134-11 (B) 0.082 100V polyethy	and the second s	The state of the s	RV304,404 RV305,405) 1-224-822-00 D 20 k/20 k, variable; LINE OUT HEADPHONE LEVEL	
C136,236			·	_	RV303,403 HEADITIONE EDVEE	
C137,237	1-108-585-12 B 0.018 mylar	1	C736 1-121-392-11 C737 1-121-391-11	<u> </u>	RV601 1-224-491-00 (B) 22 k, adjustable	
<b>7100 000</b>	1 100 500 10	C605 1-121-986-11 (B) 2.2 50V elect	C737 1-121-391-11 C738 1-161-013-11	_	RV601 1-224-491-00 (B) 22 K, adjustante	
C138,238	1-108-599-12 B 0.068 mylar	C606 1-121-395-11 (B) 4.7 25 V elect	C/36 1-101-015-11	(boundary layer)	RV801,901 1-224-252-XX © 47 k, adjustable	
C139,239	1-108-587-12 <b>B</b> 0.022 mylar	C606 1-121-395-11 (B) 4.7 25 V elect C607 1-121-990-11 (B) 22 16 V elect	C739 1-121-352-11		K V 801, 901 1-224-232-AA ( ) 47 K, adjustitute	
C140,240	1-108-599-12 B 0.068 mylar 1-108-585-12 B 0.018 mylar	C608 1-121-395-11 (B) 4.7 25 V elect	C/39 1-121-332-11	D 47 10 V elect		
C141,241 C142,242	1-108-585-12 (B) 0.018 mylar 1-121-416-11 (B) 100 25V elect	C006 1-121-393-11 (B) 4.7 25 v clock	C801,901 1-121-395-11	(A) 4.7 25 V elect	SWITCHES	
C142,242	1-121-410-11 <b>(b)</b> 100 23 v elect	. C701 1-161-019-11 (A) 0.033 ceramic	C802,902 1-131-215-11		J. J	
C143,243	1-121-398-11 (B) 10 25V elect	(bounda		g i so i tantatom	S1 1-552-204-00 (F) Slide, REC/PB	
C145,245	1-121-395-11 B 4.7 25V elect	C702 1-131-201-11 (B) 22 16V tantalum			S2 1-552-038-00 D Lever-slide, EQ	
C146,246	1-102-106-11 (A) 100p	C703 1-121-990-11 B 22 16V elect			S3 1-552-039-00 © Leve <b>r</b> -slide, BIAS	
C147,247	1-121-398-11 (B) 10 25V elect	C704 1-121-479-11 B 22 16V elect	· ·	RESISTORS	S4 1-552-063-00 © Lever-slide, LIMITER	
C149,249	1-121-398-11 B 10 25V elect	C705 1-161-025-11 (B) 0.1 ceramic	419	1 0 1/11	S5 1-552-062-00 F Rotary-slide, DOLBY NR	
		(bounda	ry layer)  All resistors are in resistors are omition	n ohms. Common ¼W carbon		
C301,401	1-129-701-11 (B) 0.01 100V polyethylene			on page 44 for their part	S6 1-514-722-XX © Miniature, REC MUTE	
C302,402	1-129-896-11 B 0.012 100V polyethylene	C706 1-121-395-11 (A) 4.7 25 V elect	numbers.	1	S7 1-516-974-00 © Slide, TIMER	
C303,403	1-129-899-11 B 0.056 100V polyethylene	C707-710 1-161-013-11 (B) 0.01 ceramic	R030 1-206-700-11	B 33 k 2W metal oxide	S8 1-516-974-00 © Slide, MEMORY	
C304,404	1-108-573-12 <b>B</b> 0.0056 mylar	(bounda			S10 1-514-722-XX © Miniature, cassette	
C305,405	1-102-943-11 <b>(A)</b> 6p	C711 1-161-021-11 (A) 0.047 ceramic	R157,257 1-213-141-11	(A) 680 1W metal oxide	S11 1-514-722-XX © Miniature, erasure proof	
		(bounda			1994年1月25日 1月1日 日本 1994年1日 1月1日 1月1日 1月1日 1月1日 1日 1	
C306,406	1-121-651-11 B 10 16V elect	C712 1-161-013-11 (A) 0.01 ceramic			( 1-516-855-00 E Push button, POWER	
C307,407	1-129-794-11 (B) 0.0033 100V polyethylene	(bounda	ry layer) R506 1-217-402-11	B 180 ¼W fusible	S12 (E, AEP, UK model)	
C308,408	1-131-217-11 <b>B</b> 2.2 35V tantalum	C713 1-161-019-11 (A) 0.033 ceramic	2mm/M Management (2015年) 11年 11年 11年 11年 11年 11年 11年 11年 11年 1	mentered i di con comunication de la compression della compression	1-516-693-00 © Push button, POWER	
C309,409	1-131-197-11 <b>B</b> 3.3 16V tantalum	(bounda		A 1.2 k ½W carbon	(Can adian model)	
C310,410	1-108-571-12 B 0.0047 mylar		R609 <u>A</u> 1-217-375-11	B 1 ¼W fusible	S14 1-552-064-00 E Reed, rotation detect	
	•	•	The state of the s		•	

Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque <u>∧</u> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spé**c**ifié.

## Note: Circled letters ( $\widehat{\mathbb{A}}$ to $\widehat{\mathbb{Z}}$ ) are applicable to European models only.

Ref. No.	Part No.	Description	Ref. No.	Part No.	<u>Description</u>
S15 S16	1-552-174-00 1-552-174-00	(B) Pushbutton, AUTO RESET (B) Pushbutton, MANUAL RESET  JACKS	4	1-515-294-00 1-552-026-00 1-519-155-11	(E, AEP, UK model)  (Fluorescent Lamp
J301,401 J302	1-507-533-00 1-507-523-00	(B) MIC (C) LINE IN			X B Plate, terminal
J303,403 J304,404)	1-507-433-21	© 4p, LINE IN, LINE OUT		1-548-514-XX 1-551-506-00	X (H) Counter with Contact Switch (S9) D Cord, power (Canadian model)
J402	1-507-507-00	© HEADPHONES	¥4	7 1 2 2 2 3 3 3 3 3	
		FUSES	AC	CCESSORIES	& PACKING MATERIALS
$\mathbf{F}1$	<b>1</b> -532-066-00	(B) Fuse, T400 mA (E, AEP, UK model)	Part No.		Description
F2-5	<u>1-532-078-00</u>	B Fuse, 1A (E, AEP, UK model)	X-3549-745-	_	shion Ass'y
			X-3701-105-	0 (A) Tip	Ass'y, head cleaning
	MISC	CELLANEOUS	1-534-049-3 1-534-487-X	264246655 CAMPS CONTRACTOR	rd, connection; RK-74 rd, power (E, AEP, UK model)
CN1	1-507-255-00	© Socket, 11p; remote control		_	
(	1-509-546-00	© Socket, 3p; AC IN	3-429-126-00	-	g, plastic; set (Canadian model)
CN2 {	A . 505 500 00	(E, AEP, UK model)	3-541-250-00	_	cker, loading shion (E, AEP, UK model)
	1-526-528-00	•	3-548-778-00 3-548-780-00	_	shion, lower; front (E, AEP, UK model)
CN101	1-509-549-00	(Canadian model)  (B) Connector, record/playback (E, AEP, UK model)	3-548-781-00	_	shion, lower; rear (E, AEP, UK model)
CP1,2	A 1 221 057 21	B Encapsulated Component	3-548-788-00	0 Cu	shion, lower; front (Canadian model)
CP701)	/ <u>N</u> 1-231-037-31	(B) Encapsulated Component	3-548-789-0	0 Cu	shion, lower; rear (Canadian model)
1	1-231-057-31	B Encapsulated Component	3-548-790-0		shion (Canadian model)
CP702 {	44,68 112,544	(E, AEP, UK model)	3-555-533-0		rton (E, AEP, UK model)
4	1-231-341-00	[일본 - 12] -	3-555-536-0	0 Can	rton (Canadian model)
	erring between historiage	(Canadian model)			
			3-770-392-3	_	nual, instruction (Canadian model) nual, instruction (E, AEP, UK model)
HE	8-825-506-00	© Head, erase; EF135-36	3-770-392-5	2 (n) Ma	nual, instruction (E, AEF, OK model)
HRP	8-825-612-00	M Head, record/playback; PF145-3602	4-837-003-0	0 © Bag	g, plastic; set (E, AEP, UK model)
		1 Γ 143-3002	7-03/-003-0	о ора	5, panetic, set (1), film, of model)
M1	8-835-006-00	(L) Motor, capstan; DNF-1001B			
M2	8-834-015-01	(K) Motor, reel; DNM-1202A			
DI 1 0	1-518-115-XX	(B) Lamp, 6V 35 mA			
PL1-9		G Solenoid			
PM1,2	1-454-177-00 1-454-158-00	(F) Solenoid			
PM3	1-404-100-00	Dotenoid			

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. Note: Les composants identifiés par un tramé et une marque <u>A</u> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## MODEL IDENTIFICATION

- Specification Label -

TC-K8 Canadian model

SONY<sub>®</sub> TAPECORDER TC-K8

AC 120V

60Hz

32 W

NO.

MADE IN JAPAN

TC-K8B E, AEP, UK model

SONY<sub>®</sub>

TAPECORDER TC-K8B 110 120 220 240V ~ 50/60Hz 35W

NO.

MADE IN JAPAN

**Sony Corporation** 

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**- 50 -**

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